## SAAD SITE STEERING COMMITTEE

11 9 0037



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February 21, 1995

Mr. Andrew Harrison Office of Regional Counsel U.S. EPA Region IV 345 Courtland Street, N.E. Atlanta, GA 30365

Mr. Fred Stroud Senior On-Site Coordinator U.S. EPA Region IV 345 Courtland Street, N.E. Atlanta, GA 30365

Re: Saad Trousdale Drive Site, Nashville, Tennessee

Supplement to February 10, 1995 letters

## Gentlemen:

The Saad Site Steering Committee's technical consultants have reviewed the voluminous soil sampling and analytical data generated from the Site during the several investigations that the Committee has conducted. This review focused on the hazardous substances specifically mentioned as a concern by Mr. Stroud in his January 21, 1995 letter (TCE, toluene, xylene, and vinyl chloride) as well as total VOCs. Enclosed are five charts that have been prepared to reflect this data. The samples have been numbered, based on total VOCs, from 1 (highest total VOCs) to 56 (lowest total VOCs). Also enclosed is a map of the Site showing the location of the samples by these sample numbers.

Please bear in mind that these charts reflect samples that were taken after the original removal in 1990. During that removal, extensive above-ground and surface materials were removed from the Site.

The information on these charts demonstrate the following:

• Of the total VOC concentrations, 25 of the highest 26 samples are from areas that have been excavated and removed in previous removals; the one sample

from an area that has not been removed (No. 10) was from soil that is above groundwater (sampled at 2.5 ft.).

- Except for that sample, the highest total VOC concentration from a sample that remains on-site is only 50.8 ppm.
- Of the TCE concentrations, 9 of the highest 10 samples are from areas that have been excavated and removed in previous removals; the one sample from an area that has not been removed (No. 10) was from soil that is above groundwater (sampled at 2.5 ft.).
- Except for that sample, the highest TCE concentration from a sample that remains on-site is only 3.6 ppm.
- Of the toluene concentrations, 20 of the highest 21 samples are from areas that have been excavated and removed in previous removals; the one sample from an area that has not been removed (No. 10) was from soil that is above groundwater (sampled at 2.5 ft.).
- Except for that sample, the highest toluene concentration from a sample that remains on-site is only 27 ppm.
- Of the xylene concentrations, 20 of the highest 21 samples are from areas that have been excavated and removed in previous removals; the one sample from an area that has not been removed (No. 10) was from soil that is above groundwater (sampled at 2.5 ft.).
- Except for that sample, the highest xylene concentration from a sample that remains on-site is only 20 ppm.
- Vinyl chloride was detected in only two samples, both of which are from areas that have been excavated and removed during previous removals.

Also enclosed are sample data from the TCLP analyses that have been run on sludge samples. (Sludge samples have been analyzed only for disposal characterization. No total constituent analyses have been performed on sludge samples.) These samples were non-detect for all of the volatiles tested, including TCE and vinyl chloride. From this it necessarily follows that the presence of sludge does not necessarily indicate the presence of elevated levels of the contaminants of concern to Mr. Stroud.

None of this is new information. All of it was available last summer when EPA and the Steering Committee agreed upon the location and scope of the most recent removal conducted by the Steering Committee. Likewise, all of it was available when EPA and Alcoa agreed on the location and extent of the removal action conducted by Alcoa. All of

the areas of highest contamination that remained on the property as of last summer have been removed.

I look forward to discussing this with you.

11 9 0039

Sincerely,

SAAD SITE STEERING COMMITTEE

Chairman of the Executive Committee

JAG:jlu

Enclosures

cc w/ enclosures:

Mr. Shane Hitchcock

Mr. Richard Green

Mr. Joseph Franzmathis Mr. Patrick M. Tobin

Mr. John H. Hankinson, Jr.

Ms. Wilda W. Cobb

Mr. T. Anthony Quinn

Mr. Robert C. Watson

	•	• 500	REMOVED	
	2	5.162	REMOVED	<10,000 ppm
	3	7,685	REMOVED	• •
	4	5,410	REMOVED	
	5	3,167	REMOVED	
	6	2,670	REMOVED	
a 🌉	.7	2,268	REMOVED	
	- 8	1,958	REMOVED	
	. 9	1,815	REMOVED	
	10	1.037	Left for RI/FS *	- 31 o - 4 000 o 1100 o
	11 12	968 864	REMOVED REMOVED	<1,000 ppm
	13	475	REMOVED	
*	14	426	REMOVED	
	15	282	REMOVED	
	16	276	REMOVED	
	17	276	REMOVED	
	18	166	REMOVED	
	19	77.9	REMOVED	<100 ppm
	20	77.6	REMOVED	
	21 22	77.0	REMOVED	
	23	71.5 63.8	REMOVED REMOVED	
	24	58.3	REMOVED	
	25	53:0	REMOVED	
	26	50.8	REMOVED	
	All	below are	< 51 ppm	
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ertonomenacotecon	28	48.8	Left for RI/FS	
	29	42.2	REMOVED	
************	30	41.1	Left for RI/FS	
	ა. 32	33.6 30.4	REMOVED  Left for RI/FS	
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	37	15.1	Left for RI/FS	
7.0 27.00.00	38	11.1	Left for RI/FS	
199 (0.7) (1.5)	39	3.00	REMOVED:	<10 ppm
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	42	2.10	Left for RI/FS	
	43	2.05	Left for RI/FS	
1	44		REMOVED	<1.ppm
	45	0.302	Left for RI/FS	
	46	0.238	Left for RI/FS	
s, udanishin	47	0.205	Left for RI/FS	nerrrak kunski u framanska arenik skilati.
	48	D.178	REMOVED	
	49 50	0.099	REMOVED Left for RI/FS	
	51	0.085	Left for RI/FS	
	52	0.027	Left for RI/FS	
	53	DN	Left for RI/FS	
	54	МD	Left for RI/FS	
	55	СN	Left for RI/FS	
	56	GИ	Left for RI/FS	
	57	СИ	Left for RI/FS	

above groundwater - sampled at 2.5 ft. (sample in same area at 5 ft. had 0.205 ppm)

2000000	44111	حاددات	
. 1	3,300	REMOVED	
7	650	REMOVED	<1,000 ppm
3	460	REMOVED	
2	420	REMOVED	
12	280	REMOVED	
13	38	REMOVED	<100 ppm
10	31	Left for RI/FS *	•
26	27	REMOVED	
22	6.9	REMOVED	<10 ppm
5	3.8	REMOVED	
***************************************	All below ar	e < 3.7 ppm	
27 *	3.6	Left for RI/FS	
30	2.5	Left for RI/FS	
29	2.1	REMOVED	
18	1.9	REMOVED	
14	1.8	REMOVED	<1 ppm
24	0.62	REMOVED	
44	0.13	REMOVED	
36	0.070	Left for RI/FS	
48	0.026	REMOVED	
45	0.011	Left for RI/FS	***************************************
52	0.011	Left for RI/FS	
51	0.010	Left for RI/FS	

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<sup>\*</sup> above groundwater - sampled at 2.5 ft. (sample in same area at 5 ft. was ND)

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21 21 REMOVED 30 21 Left for RI/FS 29 17 REMOVED 33 14 Left for RI/FS 32 13 Left for RI/FS 34 13 Left for RI/FS 26 12 REMOVED 20 10 REMOVED 21 5.5 REMOVED 22 5.5 REMOVED 38 3.5 Left for RI/FS 39 3.0 REMOVED 42 2.1 Left for RI/FS 35 1.6 Left for RI/FS 40 1.4 Left for RI/FS 40 1.4 Left for RI/FS 41 0.41 Left for RI/FS 42 0.40 REMOVED 36 0.14 Left for RI/FS 49 0.11 REMOVED 48 0.098 REMOVED 48 0.098 REMOVED 47 0.032 Left for RI/FS 45 0.022 Left for RI/FS 50 0.022 Left for RI/FS 50 0.022 Left for RI/FS 51 0.016 Left for RI/FS 52 1.6 Left for RI/FS 53 0.016 Left for RI/FS 54 0.016 Left for RI/FS					
30 21 Left for RI/FS 29 17 REMOVED 33 14 Left for RI/FS 32 13 Left for RI/FS 34 13 Left for RI/FS 26 12 REMOVED 20 10 REMOVED 21 5.5 REMOVED 22 5.5 REMOVED 25 5.0 REMOVED 26 12 Left for RI/FS 27 3.0 REMOVED 28 3.1 Left for RI/FS 29 10 REMOVED 29 10 REMOVED 20 10 REMOVED 20 10 REMOVED 21 Left for RI/FS 22 5.5 REMOVED 23 8 3.5 Left for RI/FS 24 1.6 Left for RI/FS 25 1.6 Left for RI/FS 26 1.4 Left for RI/FS 27 1.4 Left for RI/FS 28 1.5 Left for RI/FS 29 1.4 Left for RI/FS 40 1.4 Left for RI/FS 41 0.41 Left for RI/FS 42 0.40 REMOVED 43 0.67 Left for RI/FS 44 0.40 REMOVED 45 0.01 REMOVED 46 0.01 Left for RI/FS 47 0.032 Left for RI/FS 48 0.098 REMOVED 48 0.098 REMOVED 49 0.11 REMOVED 40 0.010 Left for RI/FS 40 0.010 Left for RI/FS 41 0.010 Left for RI/FS 42 1.0 Left for RI/FS 43 1.0 Left for RI/FS 45 1.0 Left for RI/FS 46 0.016 Left for RI/FS					
29 17 REMOVED 33 14 Left for RI/FS 32 13 Left for RI/FS 34 13 Left for RI/FS 26 12 REMOVED 20 10 REMOVED 21 5.5 REMOVED 22 5.5 REMOVED 38 3.5 Left for RI/FS 39 3.0 REMOVED 42 2.1 Left for RI/FS 35 1.6 Left for RI/FS 40 1.4 Left for RI/FS 41 0.41 Left for RI/FS 42 0.40 REMOVED 43 0.67 Left for RI/FS 44 0.40 REMOVED 45 0.14 Left for RI/FS 46 0.016 Left for RI/FS 47 0.032 Left for RI/FS 48 0.098 REMOVED 49 0.11 REMOVED 49 0.11 REMOVED 41 0.032 Left for RI/FS 45 0.022 Left for RI/FS 45 0.022 Left for RI/FS 46 0.016 Left for RI/FS					
33 14 Left for RI/FS 32 13 Left for RI/FS 34 13 Left for RI/FS 26 12 REMOVED 20 10 REMOVED 22 5.5 REMOVED 25 5.0 REMOVED 38 3.5 Left for RI/FS 39 3.0 REMOVED 42 2.1 Left for RI/FS 35 1.6 Left for RI/FS 40 1.4 Left for RI/FS 41 0.41 Left for RI/FS 42 0.40 REMOVED 43 0.67 Left for RI/FS 44 0.40 REMOVED 45 0.11 REMOVED 46 0.11 REMOVED 47 0.032 Left for RI/FS 45 0.022 Left for RI/FS 50 0.022 Left for RI/FS 50 0.016 Left for RI/FS 46 0.016 Left for RI/FS					
32 13 Left for RI/FS 34 13 Left for RI/FS 26 12 REMOVED 20 10 REMOVED 22 5.5 REMOVED 25 5.0 REMOVED 38 3.5 Left for RI/FS 39 3.0 REMOVED 42 2.1 Left for RI/FS 35 1.6 Left for RI/FS 40 1.4 Left for RI/FS 41 0.41 Left for RI/FS 42 0.11 REMOVED 43 0.67 Left for RI/FS 44 0.40 REMOVED 45 0.11 REMOVED 46 0.11 REMOVED 47 0.032 Left for RI/FS 45 0.022 Left for RI/FS 50 0.022 Left for RI/FS 37 0.016 Left for RI/FS 46 0.016 Left for RI/FS					
34 13 Left for RI/FS 26 12 REMOVED 20 10 REMOVED 22 5.5 REMOVED 25 5.0 REMOVED 38 3.5 Left for RI/FS 39 3.0 REMOVED 42 2.1 Left for RI/FS 35 1.6 Left for RI/FS 40 1.4 Left for RI/FS 41 0.41 Left for RI/FS 42 43 0.67 Left for RI/FS 43 0.67 Left for RI/FS 44 0.40 REMOVED 36 0.14 Left for RI/FS 49 0.11 REMOVED 48 0.098 REMOVED 48 0.098 REMOVED 47 0.032 Left for RI/FS 45 0.022 Left for RI/FS 50 0.022 Left for RI/FS 37 0.016 Left for RI/FS 46 0.016 Left for RI/FS					
26 12 REMOVED 20 10 REMOVED 22 5.5 REMOVED <10 ppm 25 5.0 REMOVED 38 3.5 Left for RI/FS 39 3.0 REMOVED 42 2.1 Left for RI/FS 35 1.6 Left for RI/FS 40 1.4 Left for RI/FS 41 0.41 Left for RI/FS 44 0.40 REMOVED 36 0.14 Left for RI/FS 49 0.11 REMOVED 48 0.098 REMOVED 48 0.098 REMOVED 47 0.032 Left for RI/FS 45 0.022 Left for RI/FS 50 0.022 Left for RI/FS 37 0.016 Left for RI/FS 46 0.016 Left for RI/FS			13		
20 10 REMOVED  22 5.5 REMOVED <10 ppm  25 5.0 REMOVED  38 3.5 Left for RI/FS  39 3.0 REMOVED  42 2.1 Left for RI/FS  35 1.6 Left for RI/FS  40 1.4 Left for RI/FS  41 0.41 Left for RI/FS  44 0.40 REMOVED  36 0.14 Left for RI/FS  49 0.11 REMOVED  48 0.098 REMOVED  47 0.032 Left for RI/FS  45 0.022 Left for RI/FS  50 0.022 Left for RI/FS  37 0.016 Left for RI/FS  46 0.016 Left for RI/FS		34	13	Left for RI/FS	
22 5.5 REMOVED <10 ppm  25 5.0 REMOVED  38 3.5 Left for RI/FS  39 3.0 REMOVED  42 2.1 Left for RI/FS  35 1.6 Left for RI/FS  40 1.4 Left for RI/FS  41 0.41 Left for RI/FS  44 0.40 REMOVED  36 0.14 Left for RI/FS  49 0.11 REMOVED  48 0.098 REMOVED  47 0.032 Left for RI/FS  45 0.022 Left for RI/FS  50 0.022 Left for RI/FS  37 0.016 Left for RI/FS  46 0.016 Left for RI/FS		26	12	REMOVED	
25 5.0 REMOVED 38 3.5 Left for RI/FS 39 3.0 REMOVED 42 2.1 Left for RI/FS 35 1.6 Left for RI/FS 40 1.4 Left for RI/FS 41 0.41 Left for RI/FS 44 0.40 REMOVED 36 0.14 Left for RI/FS 49 0.11 REMOVED 48 0.098 REMOVED 47 0.032 Left for RI/FS 45 0.022 Left for RI/FS 50 0.022 Left for RI/FS 37 0.016 Left for RI/FS 46 0.016 Left for RI/FS		20	10	REMOVED	
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38 3.5 Left for RI/FS 39 3.0 REMOVED 42 2.1 Left for RI/FS 35 1.6 Left for RI/FS 40 1.4 Left for RI/FS 41 0.41 Left for RI/FS 44 0.40 REMOVED 36 0.14 Left for RI/FS 49 0.11 REMOVED 48 0.098 REMOVED 47 0.032 Left for RI/FS 45 0.022 Left for RI/FS 50 0.022 Left for RI/FS 37 0.016 Left for RI/FS 46 0.016 Left for RI/FS		25	5.0	REMOVED	••
39 3.0 REMOVED 42 2.1 Left for RI/FS 35 1.6 Left for RI/FS 40 1.4 Left for RI/FS 43 0.67 Left for RI/FS 41 0.41 Left for RI/FS 44 0.40 REMOVED 36 0.14 Left for RI/FS 49 0.11 REMOVED 48 0.098 REMOVED 47 0.032 Left for RI/FS 45 0.022 Left for RI/FS 50 0.022 Left for RI/FS 37 0.016 Left for RI/FS 46 0.016 Left for RI/FS					
42       2.1       Left for RI/FS         35       1.6       Left for RI/FS         40       1.4       Left for RI/FS         43       0.67       Left for RI/FS         41       0.41       Left for RI/FS         44       0.40       REMOVED         36       0.14       Left for RI/FS         49       0.11       REMOVED         48       0.098       REMOVED         47       0.032       Left for RI/FS         45       0.022       Left for RI/FS         50       0.022       Left for RI/FS         37       0.016       Left for RI/FS         46       0.016       Left for RI/FS					
35     1.6     Left for RI/FS       40     1.4     Left for RI/FS       43     0.67     Left for RI/FS       41     0.41     Left for RI/FS       44     0.40     REMOVED       36     0.14     Left for RI/FS       49     0.11     REMOVED       48     0.098     REMOVED       47     0.032     Left for RI/FS       45     0.022     Left for RI/FS       50     0.022     Left for RI/FS       37     0.016     Left for RI/FS       46     0.016     Left for RI/FS					
40 1.4 Left for RI/FS 43 0.67 Left for RI/FS <1 ppm 41 0.41 Left for RI/FS 44 0.40 REMOVED 36 0.14 Left for RI/FS 49 0.11 REMOVED 48 0.098 REMOVED 47 0.032 Left for RI/FS 45 0.022 Left for RI/FS 50 0.022 Left for RI/FS 37 0.016 Left for RI/FS 46 0.016 Left for RI/FS					
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44 0.40 REMOVED 36 0.14 Left for RI/FS 49 0.11 REMOVED 48 0.098 REMOVED 47 0.032 Left for RI/FS 45 0.022 Left for RI/FS 50 0.022 Left for RI/FS 37 0.016 Left for RI/FS 46 0.016 Left for RI/FS					< r ppm
36 0.14 Left for RI/FS 49 0.11 REMOVED 48 0.098 REMOVED 47 0.032 Left for RI/FS 45 0.022 Left for RI/FS 50 0.022 Left for RI/FS 37 0.016 Left for RI/FS 46 0.016 Left for RI/FS					
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48 0.098 REMOVED 47 0.032 Left for RI/FS 45 0.022 Left for RI/FS 50 0.022 Left for RI/FS 37 0.016 Left for RI/FS 46 0.016 Left for RI/FS					
47 0.032 Left for RI/FS 45 0.022 Left for RI/FS 50 0.022 Left for RI/FS 37 0.016 Left for RI/FS 46 0.016 Left for RI/FS					
45 0.022 Left for RI/FS 50 0.022 Left for RI/FS 37 0.016 Left for RI/FS 46 0.016 Left for RI/FS			0.098	REMOVED	
50 0.022 Left for RI/FS 37 0.016 Left for RI/FS 46 0.016 Left for RI/FS		47	0.032	Left for RI/FS	
50 0.022 Left for RI/FS 37 0.016 Left for RI/FS 46 0.016 Left for RI/FS		45	0.022	Left for RI/FS	
37 0.016 Left for RI/FS 46 0.016 Left for RI/FS		50	0.022	Left for RI/FS	
46 0.016 Left for RI/FS					
OT 0.014 Edit for fair G					
		JI	J.U 17	CORTOLINA S	

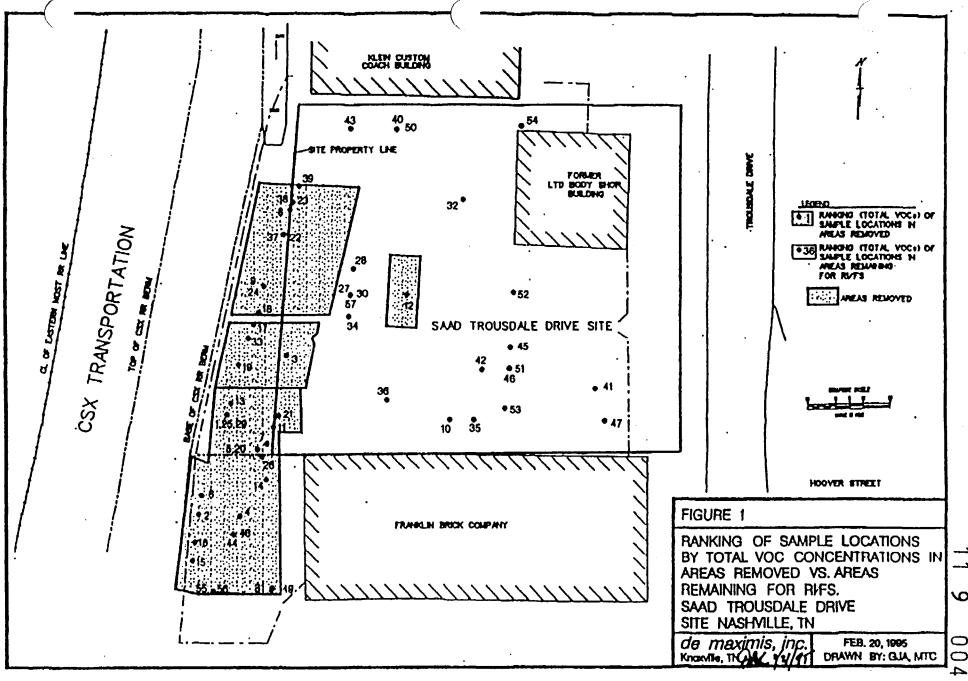
above groundwater - sampled at 2.5 ft. (sample in same area at 5 ft. had 0.032 ppm)

_006.000	و د د دو مو	0.6.63		
	1 500	REMOVED		
3	1,160	REMOVED		
2	1 900	REMOVED		
4	990	REMOVED	<1,000 p;	om
6	870	REMOVED		
· 5	710	REMOVED	·	
8	440	REMOVED	in in die op der er Geografig in de Migraii	
7	320	REMOVED		
9	320	REMOVED		
10	300	Left for RI/FS *	en i i no sentrata i i no paga entra i salego.	e politica y in instanti i
11	260	REMOVED		
14	150	REMOVED		
13	120	REMOVED		
16	110	REMOVED		
17	110	REMOVED		
15		REMOVED		
	100			
	40	REMOVED	<100pp	M. S.
25	39	REMOVED		
12	35	REMOVED		
19	21	REMOVED		
23	21	REMOVED		
	l below are			
35	20	Left for RI/FS		
24	19	REMOVED		
29	19	REMOVED		
18	16	REMOVED		
32	15	Left for RI/FS		
27	13	Left for RI/FS		
🤾 📝 33	13	Left for RI/FS		
36	13	Left for RI/FS		
28	10	Left for RI/FS		
34	10	Left for RI/FS		
30	8.6	Left for RI/FS	<10 pp	m
20	6.5	REMOVED		
26	6.3	REMOVED		
31	6.1	REMOVED		
38	2.0	Left for RI/FS	g and the second of the second	www.
41	1.6	Left for RI/FS		
22	1.2	REMOVED		7.77
43	• •	Left for RI/FS	iden radiones en l'adeur	enter a l'arce d'Arc
40	0.92	Left for Ri/FS	<1 pp	m
44	0.40	REMOVED	- 1 - 3 - 1 - PP	
47	0.053	Left for RI/FS		
50	0.045	Left for RI/FS		
	0.045	REMOVED		
48				
45 27	0.022	Left for RI/FS		
37	0.012	Left for RI/FS		
46	0.012	Left for RI/FS		

<sup>\*</sup> above groundwater - sampled at 2.5 ft. (sample in same area at 5 ft. had 0.088 ppm)

2 20.0 REMOVED 5 6.0 REMOVED

11 9 0044



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Natarille, Teractice 37703

Collection Date

Referring Client

0046

Received

10/21/92

00:00

10/21/91

JOE PUTNAM

SAAD

Time

Client iD

Reported 10/31/92

	Result	Units	Reference Limits
PCS (SOLID MATRIX)			
PCB 1016	<1000	PFM	
PCB 1221	<1000	PPM	
PCB 1232	<1000	PPM	
PCB 1242	<1000	FPM	÷
PCB 1248	<1000	PPK	
PCB 1254	<1000	PPM	
PC3 1260	<1000	PPM	·
CLP ZHE EXTRACTION	10/23/92		
C.L.P. EXTRACTION	10/23/92		
CLP METALS	• •		•
METHOD NUMBER	6010/7740/7470/7060		
ARSENIC	<0.10	PPM	
SARIUM	4.78	PPM	
CADMIUM	<0.10	PPM	•
CHROMIUM, TOTAL	<0.50	PPM	
LEAD	0.56	FPM	
HERCURY	<0.010	PPM	
SELENIUM	<0.10	FPM	
SILVER	<0.10	PPM	
TCLP VOLATILES			
M' 'OD NUMSER	8240		
E ZENE	<0.10	PPM .	
CARBON TETRACHLORIDE	<0.10	PPM	•
CHLOROBENZENE	<0.10	FPM	_
CHLOROFORM	<0.10	PPM	•
1.Z-DICHLORGETHANE	<0.10	PPM	
1,1-DI-CL-ETHYLENE	<0.10	PPM	
2-BUTANONE (MEK)	<1.0	PPM	
TETRACHLORGETHYLENE .	<0.10	FPM	
FRICHLOROSTHYLENS	<0.10	PPH	·
VINYL CHLORIDE	<0.10	PPM	
TOLP EXTRACTABLES			
METHOD NUMBER	827C		
PYRIDINE	<0.10	FPM	
· · · · · · · · · · · · · · · · · · ·		~~~	

DRE ENVIRONMENTAL SERVICES INC ATT. JOE PUTNAM P.O. BOX 957 BRENTWOOD

C-CRESOL

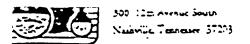
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PPM



Collection Date

Referring Client

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Receive

10/21/92

Client ID

Time

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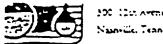
JOE PUTNAM

SAAD 10/3:/9

Reporte

Test	Result	Units	Reference Limits
M-CRESCL P-CRESOL	· <0.10	PPM	•
P-CRESOL	<0.10	PPM	
1,4-DICHLOROBENZENE	<0.10 <0.10	PPM	
2,4-DINITROTOLUENE	<0.10	PPM	
HEXACHLOROBUTAD I ENE	<0.10	PPM	~
HEXACHLOROETHANE	<0.10	PPM	
NITROBENZENE	<0.10	PPM	
PENTACHLOROPHENOL	<0.10	PPM	
2.4.5-TRICHLORPHENOL	<0.10	PPM	•
2,4,6-TRI CL PHENOL .		PPM	
HEXACHLOROBENZENE	<0.10	PPM	•
TCLP PESTICIDE/HERB			
METHOD NUMBER	8080		
CHLORDANE	<0.015	PPM	
ENDRIN	<0.010	PPM	
HEPTACHLOR	<0.005	PPM:	
HEPTACHLOREPOXIDE	<0.005	PPM	
LINDANE	<0.20	PPM	
METHOXYCHLOR	<1.0	PPM	
TOXAPHENE	<0.25	PPM	
, 2 <b>′,-</b> 0	<5.0	PPM	
a js-TP(SILVEX) .	<0.50	PPM	
SPIKE RECOVERY DATA			
*ARSENIC TCLP SPIKE	122	7 REC	
TBARIUM TOLP SPIKE	93	% REC	
*CADMIUM TCLP SPIKE	95	. % REC	
*CHROMIUM TCLP SPIKE	105	. % REC	
*LEAD	108	% REC	•
*MERCURY	801	7. REC	
-SELENIUM	115	% REC	
*SILVER	96	% REC	
VINYL CHLORIDE	82	% REC	
1,1-DCE	93	7 REC	
***1,2-DCA	81	% REC	
· · · CHLOROFORM	103	% REC	
***Z-BUTANONE	64	. % REC	

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200 12th Avenue South Nanville, Teanweet 37203

Collection Date

0048

00:00

Time

Receives 10/21/92

Referring Client

Client ID

Reported

JOE PUTNAM

10/21/92

SAAD

10/31/92

Test	Result	Units	Reference Limits
CARBONTET	145	% REC	
TCE	101	% REC	
BENZENE	11	% REC	
***PCE	112	% REC	
***CHLOROBENZENE	112	7. REC	<b>~</b>
PYRIDINE	55	% REC	
*O-CRESOL	පිය	% REC	
*M-CRESOL	75	% REC	
*P-CRESOL -	75	. % REC	
-1.4-DICHLOROBENZENE	75	% REC	
*2,4-DINITROTOLUENE	75	% REC	•
*HEXACHLOROBUTADIENE	71	· 7. REC	
THEXACHLORGETHANE	81	% REC	
*NITROSENZENE	<u>,</u> 81	% REC	
*PENTACHLOROPHENOL	97	7. REC	
*2.4.5-TRICHLOROPHEN	96	% REC	
*2,4,6-TRICHLOROPHEN	96	% REC	
*HEXACHLOROBENZENE	120	% REC	
#CHLORDANE	92	% REC	
*ENDRIN	70	% REC	
*HFPTACHLOR	96	% REC	
TACHLOR EFOXIDE	120	% REC	
PLINDANE	34	% REC	
*METHOXYCHLOR	56	% REC	
TOXAPHENE	92	7. REC	
**2,4-0	116	% REC	
**2,4,5-TP SILVEX	75	7. REC	
	•		
	•		
	_		

TCLP preparation follows method 1311 SW-846 as revised June 29, 1990 (55 CFR 26966). All data is corrected from matrix spike recoveries. APPROVED BY FAUL E. LANE, JR., LAS SUPERYESOR

DRE ENVIRONMENTAL SERVICES INC ATT. JOE PUTNAM P.O. BCX 987

BRENTWOOD

TN 37027

300 Ilm Armur South Nair-Le Tennesce 37703

Collection Date 10/14/92

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00:00

Time

Receive. 10/14/91

Referring Client

Client 1D

Reporte:

JCE PUTNAM

SAAD

10/18/9;

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E ENVIRONMENTAL SERVICES INC Telephone: 000 373 1373

T. JOE PUTNAM

0. SOX 967 ENT:700

TN 37027

عناصر منتهجم عيارا المرز National Section Section 197203

Collection Date

10/14/92

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Time

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Client 1D

Reporte:

JOE PUTNAM

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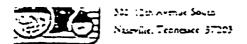
10/18/9:

Test	Result	Units	Reference Limits
Z,4,5-TR1CHLORPHENOL	<0.10	PPM	
2,4,6-TRI CL PHENOL	<0.10	PPM	
HEXACHLOROBENZENE	<0.10	PPM	
CLP PESTICIDE/HERB		•	
METHOD NUMBER	8080		<b>.</b>
CHLORDANE	<0.015	PPM	
ENDRIN	<0.010	PPM	
HEPTACHLOR	<0.005	PPM	
HEPTACHLOREPOX I DE	<0.005	PPM	
_INDANE 1ETHOXYCHLOR	<0.20	PPM	
	<1.0	PPM	•
TOXAPHENE	<0.25	PPM	
2,4,-D	<5.0	PPM	
2,4,5-TP(S1LVEX)	<0.50	PPM	
PIKE RECOVERY DATA			
ARSENIC TOLP SPIKE	110	% REC	
*SARIUM TCLP SPIKE	86	% REC	
*CADMIUM TCLP SPIKE	84	% REC	
*CHROMIUM TCLP SPIKE	103	% REC	
*LEAD	106	7 REC	
-MERCURY	94	7. REC	
אטואי בי.	103	% REC	
-S ER	89	7. REC	
***VINYL CHLORIDE	98	7. REC	
***1,1-DCE	110	7. REC	
1,2-DCA	108	7 REC	
CHLOROFORM	105	· % REC	
***2-BUTANONE	124	. 7 REC	
***CARBONTET	125	7. REC	
···TCE	104	7 REC	
***BENZENE	110	% REC	
***PCE	111	7. REC	
CHLOROBENZENE	110	% REC	
PYRIDINE	38	% REC	
*O-CRESOL	47	7. REC	
-M-CRESOL	42	' 7. REC	

D. BOX 987

בסרי דאן TN 37027

E ENVIRONMENTAL SERVICES INC Telephone: 000 373 1373 C. JOE PUTNAM



Collection Date 10/14/92

11 9 0051 00:00

Received 10/14/97

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Client ID

Time

Reported

JCE PUTNAM

SAAD

10/18/92

Test	Result	Units	Reference Limits
*P-CRESOL	42	% REC	
1,4-DICHLOROBENZENE	49	% REC	
2,4-DINITROTCLUENE	68	% REC	
*HEXACHLOROBUTAD1ENE	37	% REC	
	44	7 REC	
*HEXACHLOROETHANE			
*NITROBENZENE	66	7. REC	
*PENTACHLOROPHENOL	65	% REC	
*2,4,5-TR1CHLOROPHEN	80	% REC	
*2,4,6-TRICHLOROPHEN	84	% REC	
*HEXACHLOROBENZENE	76	% REC	
*CHLORDANE	103	7. REC	•
*ENDRIN	105	7 REC	
*HEPTACHLOR	104	7. REC	
*HEPTACHLOR EPOXIDE	90	7. REC	
LINDANE	120	7. REC	
METHOXYCHLOR	80	% REC	
*TOXAPHENE	66	% REC	
	96	% REC	
**2,4-D			
**2,4,5-TP SILVEX	94	7. REC	•
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TCLP preparation follows method 1311 5W-846 as revised June 29, 1990 (55 CFR 26986). All data is corrected from matrix spike recoveries. APPROVED BY PAUL E. LANE. JR., LAB SUPERVYSOR

RE ENVIRONMENTAL SERVICES INC Telephone: 000 373 1373